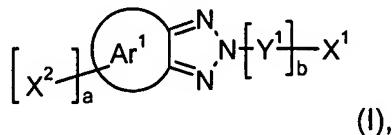


IN THE CLAIMS

The text of all claims under examination is submitted, and the status of each is identified. This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (currently amended): An electroluminescent device, comprising a 2H-benzotriazole compound of the formula



where

a is 0, or 1,

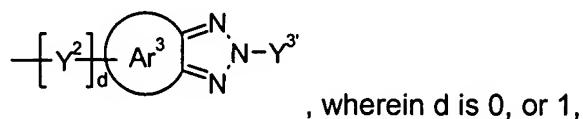
b is 0, or 1,

X^1 is a group of formula



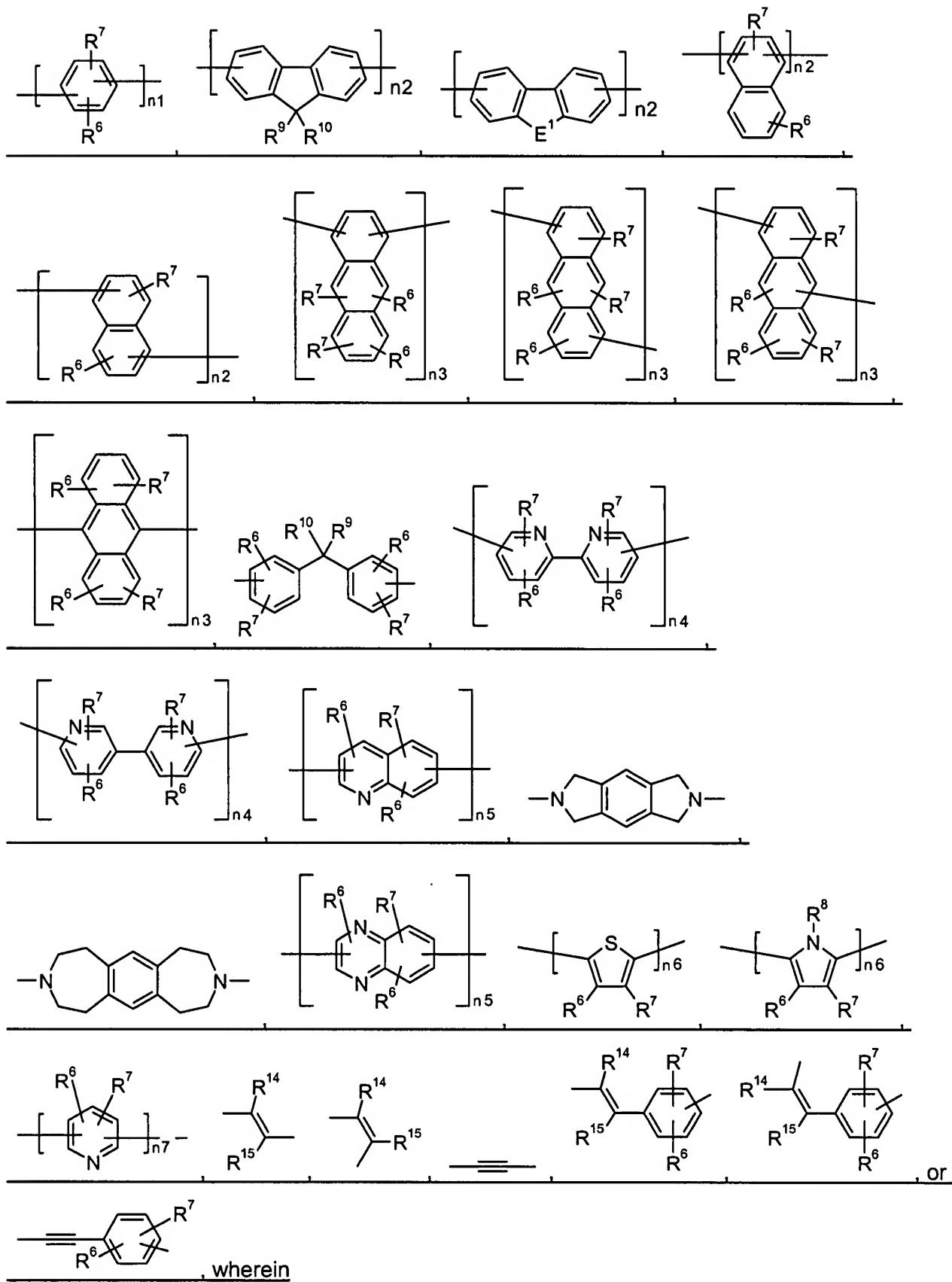
c is 0, or 1

X^2 and X^3 are independently of each other a group of formula



Ar^1 , Ar^2 , and Ar^3 are independently of each other C_6 - C_{30} aryl or a C_2 - C_{26} heteroaryl, which can optionally be substituted,

Y^1 and Y^2 are independently of each other a divalent linking group,



n1, n2, n3, n4, n5, n6 and n7 are 1, 2, or 3,

E¹ is -S-, -O-, or -NR^{25'}-, wherein R^{25'} is C₁-C₂₄alkyl, or C₆-C₁₀aryl,

R⁶ and R⁷ are independently of each other H, halogen, hydroxy, C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₁-C₂₄perfluoroalkyl, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR^{25'}-, C₅-C₁₂cycloalkoxy, C₅-C₁₂cycloalkoxy which is substituted by E, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, C₇C₂₅aralkyl, which is substituted by E, C₇-C₂₅aralkoxy, C₇-C₂₅aralkoxy which is substituted by E, or -CO-R²⁸.

R⁸ is C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, or C₇-C₂₅aralkyl,

R⁹ and R¹⁰ are independently of each other C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl, or

R⁹ and R¹⁰ form a five- or six-membered ring,

R¹⁴ and R¹⁵ are independently of each other H, C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, or C₂-C₂₀heteroaryl which is substituted by E,

D is -CO-, -COO-, -S-, -SO-, -SO₂-, -O-, -NR²⁵-, -SiR³⁰R³¹-, -POR³²-, -CR²³=CR²⁴-, or -C≡C-, and E is -OR²⁹, -SR²⁹, -NR²⁵R²⁶, -COR²⁸, -COOR²⁷, -CONR²⁵R²⁶, -CN, -OCOOR²⁷, or halogen, wherein

R²³, R²⁴, R²⁵ and R²⁶ are independently of each other H, C₆-C₁₈aryl, C₆-C₁₈aryl which is substituted by C₁-C₂₄alkyl, C₁-C₂₄alkoxy, C₁-C₂₄alkyl, or C₁-C₂₄alkyl which is interrupted by -O-, or

R²⁵ and R²⁶ together form a five or six membered ring,

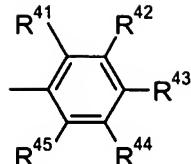
R²⁷ and R²⁸ are independently of each other H, C₆-C₁₈aryl, C₆-C₁₈aryl which is substituted by C₁-C₂₄alkyl, or C₁-C₂₄alkoxy, C₁-C₂₄alkyl, or C₁-C₂₄alkyl which is interrupted by -O-,

R²⁹ is H, C₆-C₁₈aryl, C₆-C₁₈aryl, which is substituted by C₁-C₂₄alkyl, C₁-C₂₄alkoxy, C₁-C₂₄alkyl, or C₁-C₂₄alkyl which is interrupted by -O-,

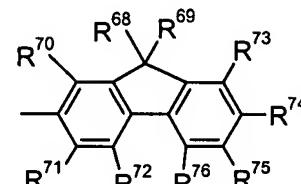
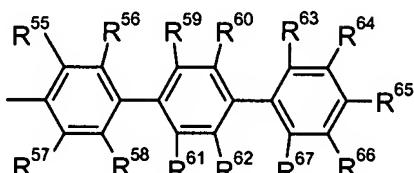
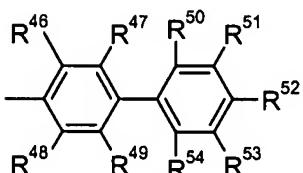
R³⁰ and R³¹ are independently of each other C₁-C₂₄alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₂₄alkyl, and

R³² is C₁-C₂₄alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₂₄alkyl,

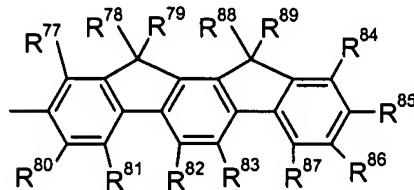
and



Y^3 and $Y^{3'}$ are independently of each other a group of formula

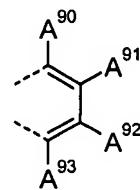


, or

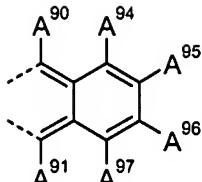


, wherein

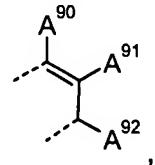
$R^{41}, R^{42}, R^{43}, R^{44}, R^{45}, R^{46}, R^{47}, R^{48}, R^{49}, R^{50}, R^{51}, R^{52}, R^{53}, R^{54}, R^{55}, R^{56}, R^{57}, R^{58}, R^{59}, R^{60}, R^{61}, R^{62}, R^{63}, R^{64}, R^{65}, R^{66}, R^{67}, R^{70}, R^{71}, R^{72}, R^{73}, R^{74}, R^{75}, R^{76}, R^{77}, R^{80}, R^{81}, R^{82}, R^{83}, R^{84}, R^{85}, R^{86}$, and R^{87} are independently of each other H, C_1 - C_{24} alkyl, which is optionally substituted by E and/or interrupted by D, C_1 - C_{24} alkenyl, which is optionally substituted by E, C_5 - C_{12} cycloalkyl, which is optionally substituted by E, C_5 - C_{12} cycloalkoxy, which is optionally substituted by E, C_6 - C_{18} aryl, which is optionally substituted by E, C_1 - C_{24} alkoxy, which is optionally substituted by E and/or interrupted by D, C_6 - C_{18} aryloxy, which is optionally substituted by E, C_7 - C_{18} arylalkoxy, which is optionally substituted by E, C_1 - C_{24} alkylthio, which is optionally substituted by E and/or interrupted by D, C_1 - C_{24} alkylselenium, which is optionally substituted by E and/or interrupted by D, C_1 - C_{24} alkyltellurium, which is optionally substituted by E and/or interrupted by D, C_2 - C_{20} heteroaryl which is substituted by E, or C_6 - C_{18} aralkyl, which is optionally substituted by E, or two groups $R^{41}, R^{42}, R^{43}, R^{44}, R^{45}, R^{46}, R^{47}, R^{48}, R^{49}, R^{50}, R^{51}, R^{52}, R^{53}, R^{54}, R^{55}, R^{56}, R^{57}, R^{58}, R^{59}, R^{60}, R^{61}, R^{62}, R^{63}, R^{64}, R^{65}, R^{66}, R^{67}, R^{70}, R^{71}, R^{72}, R^{73}, R^{74}, R^{75}, R^{76}, R^{77}, R^{80}, R^{81}, R^{82}, R^{83}, R^{84}, R^{85}, R^{86}$, and R^{87} , which are neighbouring to each other, are a group



R^{85}, R^{86} , and R^{87} , which are neighbouring to each other, are a group



or , wherein A⁹⁰, A⁹¹, A⁹², A⁹³, A⁹⁴, A⁹⁵, A⁹⁶ and A⁹⁷ are independently of each other H, halogen, hydroxy, C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₁-C₂₄perfluoroalkyl, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C₅-C₁₂cycloalkoxy, C₅-C₁₂cycloalkoxy which is substituted by E, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, C₇-C₂₅aralkyl, which is substituted by E, C₇-C₂₅aralkoxy, C₇-C₂₅aralkoxy which is substituted by E, or -CO-R²⁸, R⁶⁸, R⁶⁹, R⁷⁸, R⁷⁹, R⁸⁸ and R⁸⁹ are independently of each other C₁-C₁₈ alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl, or R⁶⁸ and R⁶⁹, R⁷⁸ and R⁷⁹, and/or R⁸⁸ and R⁸⁹ form a five- or six-membered ring, or



R⁶⁸ and R⁷⁰, R⁶⁹ and R⁷³, R⁷⁷ and R⁷⁸ and/or R⁸⁴ and R⁸⁹ are a group , D is -CO-; -COO-; -S-; -SO-; -SO₂-; -O-; -NR²⁵-, -SiR³⁰R³¹-, -POR³²-, -CR²³=CR²⁴-; or -C≡C-; and E is -OR²⁹; -SR²⁹; -NR²⁵R²⁸; -COR²⁸; -COOR²⁷; -CONR²⁵R²⁶; -CN; -OCOOR²⁷; or halogen; wherein

R²³, R²⁴, R²⁵ and R²⁶ are independently of each other H; C₆-C₁₈aryl; C₆-C₁₈aryl which is substituted by C₁-C₂₄alkyl, or C₁-C₂₄alkoxy; C₁-C₂₄alkyl; or C₁-C₂₄alkyl which is interrupted by -O-; or

R²⁵ and R²⁶ together form a five or six membered ring,

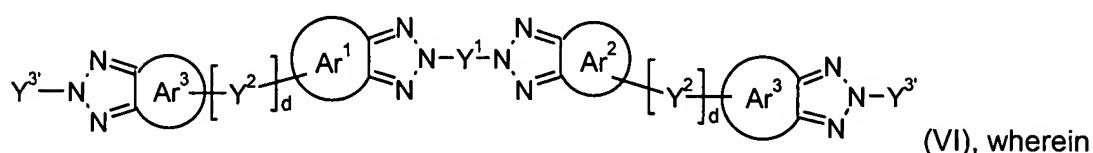
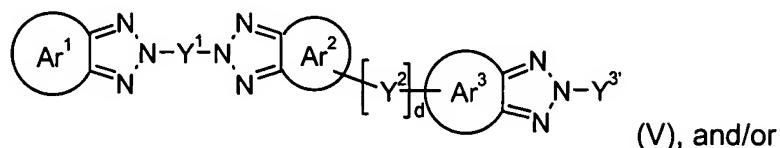
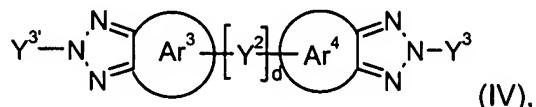
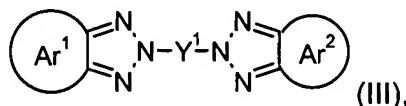
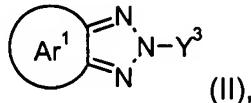
R²⁷ and R²⁸ are independently of each other H; C₆-C₁₈aryl; C₆-C₁₈aryl which is substituted by C₁-C₂₄alkyl, or C₁-C₂₄alkoxy; C₁-C₂₄alkyl; or C₁-C₂₄alkyl which is interrupted by -O-,

R²⁹ is H; C₆-C₁₈aryl; C₆-C₁₈aryl, which is substituted by C₁-C₂₄alkyl, or C₁-C₂₄alkoxy; C₁-C₂₄alkyl; or C₁-C₂₄alkyl which is interrupted by -O-,

R³⁰ and R³¹ are independently of each other C₁-C₂₄alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₂₄alkyl, and

R³² is C₁-C₂₄alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₂₄alkyl.

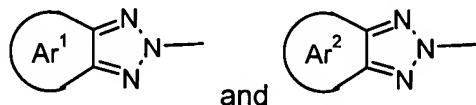
2. (previously presented): An electroluminescent device according to claim 1, comprising a 2H-benzotriazole compound of the formula



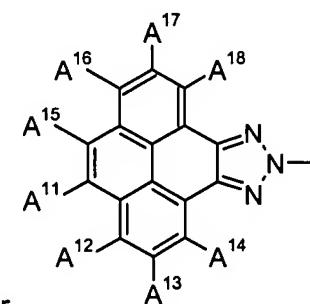
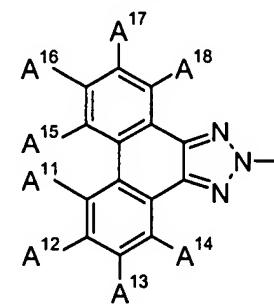
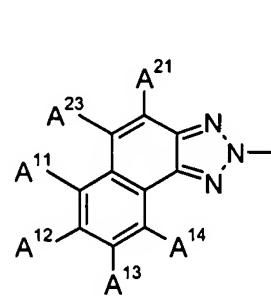
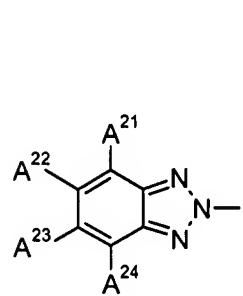
d, Ar¹, Ar², Ar³, Y¹ and Y² are defined as in claim 1 and

Ar⁴ stand for C₆-C₃₀aryl or a C₂-C₂₆heteroaryl, which can optionally be substituted.

3. (previously presented): An electroluminescent device according to claim 2, wherein

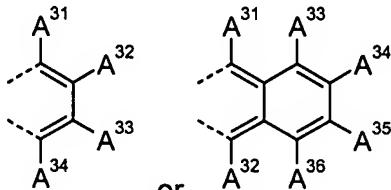


in formula II or III are independently of each other a group of formula



wherein

A^{21} , A^{22} , A^{23} , A^{24} , A^{11} , A^{12} , A^{13} , A^{14} , A^{15} , A^{16} , A^{17} and A^{18} are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, -NR²⁵R²⁶, C_1 - C_{24} alkylthio, -PR³²R³², C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, C_7 - C_{25} aralkyl, which is substituted by E, C_7 - C_{25} aralkoxy, C_7 - C_{25} aralkoxy which is substituted by E, or -CO-R²⁸, or



A^{22} and A^{23} or A^{11} and A^{23} are a group, or two groups A^{11} , A^{12} , A^{13} , A^{14} , A^{15} , A^{16} , A^{17} and A^{18} , which are neighbouring to each other, are a

group , or , wherein A^{31} , A^{32} , A^{33} , A^{34} , A^{35} , A^{36} and A^{37} are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, C_7 - C_{25} aralkyl, which is substituted by E, C_7 - C_{25} aralkoxy, C_7 - C_{25} aralkoxy which is substituted by E, or -CO-R²⁸, D is -CO-; -COO-; -S-; -SO-; -SO₂-; -O-; -NR²⁵-; -SiR³⁰R³¹-; -POR³²-; -CR²³=CR²⁴-; or -C≡C-; and E is -OR²⁹; -SR²⁹; -NR²⁵R²⁶; -COR²⁸; -COOR²⁷; -CONR²⁵R²⁶; -CN; -OCOOR²⁷; or halogen; wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkoxy; C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-; or

R^{25} and R^{26} together form a five or six membered ring,

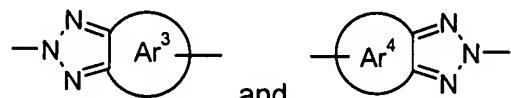
R^{27} and R^{28} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkoxy; C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-,

R^{29} is H; C_6 - C_{18} aryl; C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkoxy; C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by $-O-$,

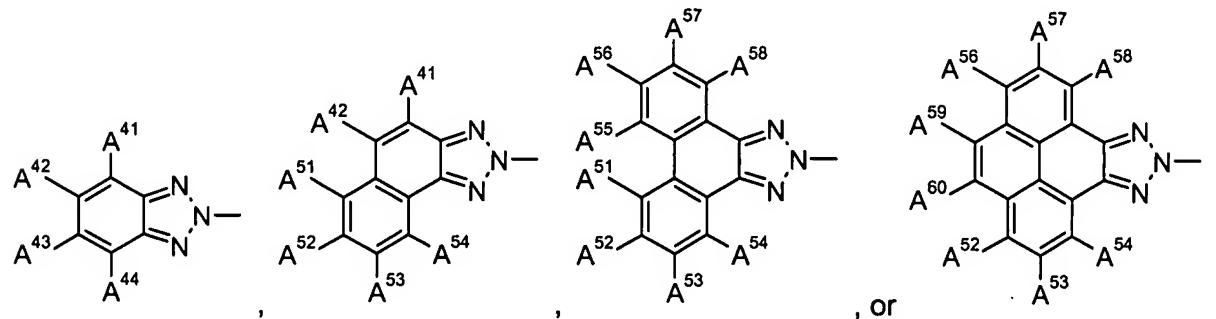
R^{30} and R^{31} are independently of each other C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, and

R^{32} is C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl.

4. (previously presented): An electroluminescent device according to claim 2, wherein

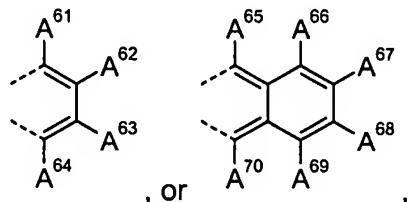


and in formula IV are independently of each other a group of formula



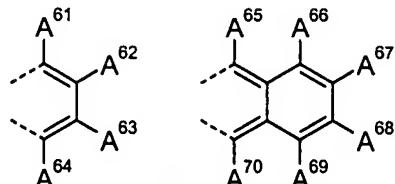
wherein

A^{41} , A^{42} , A^{43} , A^{44} , A^{51} , A^{52} , A^{53} , A^{54} , A^{55} , A^{56} , A^{57} , A^{58} , A^{59} and A^{60} are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, $-O-$, or $-NR^{25}-$, $NR^{25}R^{26}$, C_1 - C_{24} alkylthio, $-PR^{32}R^{32}$, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, C_7 - C_{25} aralkyl, which is substituted by E, C_7 - C_{25} aralkoxy, C_7 - C_{25} aralkoxy which is substituted by E, or $-CO-R^{28}$, or



A^{42} and A^{43} or A^{42} and A^{51} are a group

two groups A^{51} , A^{52} , A^{53} , A^{54} , A^{55} , A^{56} , A^{57} , A^{58} , A^{59} and A^{60} , which are neighbouring to each



other, are a group , or , wherein A^{61} , A^{62} , A^{63} , A^{64} , A^{65} , A^{66} , A^{67} , A^{68} , A^{69} and A^{70} are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, C_7 - C_{25} aralkyl, which is substituted by E, C_7 - C_{25} aralkoxy, C_7 - C_{25} aralkoxy which is substituted by E, or -CO-R²⁸,

D is -CO-; -COO-; -S-; -SO-; -SO₂-; -O-; -NR²⁵-; -SiR³⁰R³¹-; -POR³²-; -CR²³=CR²⁴-; or -C≡C-; and E is -OR²⁹; -SR²⁹; -NR²⁵R²⁶; -COR²⁸; -COOR²⁷; -CONR²⁵R²⁶; -CN; -OCOOR²⁷; or halogen; wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkoxy; C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-; or

R^{25} and R^{26} together form a five or six membered ring,

R^{27} and R^{28} are independently of each other H; C_6 - C_{18} aryl; C_6 - C_{18} aryl which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkoxy; C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-,

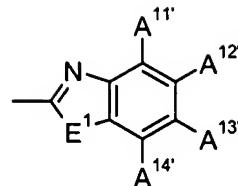
R^{29} is H; C_6 - C_{18} aryl; C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, or C_1 - C_{24} alkoxy; C_1 - C_{24} alkyl; or C_1 - C_{24} alkyl which is interrupted by -O-,

R^{30} and R^{31} are independently of each other C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, and

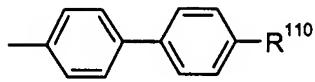
R^{32} is C_1 - C_{24} alkyl, C_6 - C_{18} aryl, or C_6 - C_{18} aryl, which is substituted by C_1 - C_{24} alkyl, wherein one of the substituents A^{41} , A^{42} , A^{43} , A^{44} , A^{51} , A^{52} , A^{53} , A^{54} , A^{55} , A^{56} , A^{57} , A^{58} , A^{59} , A^{60} , A^{61} , A^{62} , A^{63} , A^{64} , A^{65} , A^{66} , A^{67} , A^{68} , A^{69} and A^{70} represents a single bond.

5-6. (canceled)

7. (previously presented): An electroluminescent device according to claim 2, wherein the 2H-benzotriazole compound is a compound of formula



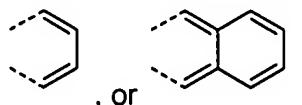
R⁴³ is hydrogen, halogen, -CONR²⁵R²⁶, -COOR²⁷, , or



, wherein

E¹ is -S-, -O-, or -NR^{25'}-, wherein R^{25'} is C₁-C₂₄alkyl, or C₆-C₁₀aryl,

R¹¹⁰ is H, CN, C₁-C₂₄alkyl, C₁-C₂₄alkoxy, C₁-C₂₄alkylthio, -NR²⁵R²⁶, -CONR²⁵R²⁶, or -COOR²⁷, or



R⁴² and R⁴³ are a group of formula

, or ,

R⁴⁴ is hydrogen, or C₁-C₂₄alkyl,

R⁴⁵ is hydrogen, or C₁-C₂₄alkyl,

A^{11'}, A^{12'}, A^{13'}, and A^{14'} are independently of each other H, CN, C₁-C₂₄alkyl, C₁-C₂₄alkoxy, C₁-C₂₄alkylthio, -NR²⁵R²⁶, -CONR²⁵R²⁶, or -COOR²⁷,

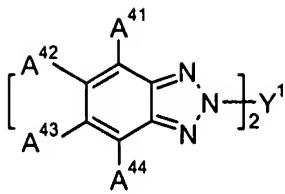
R⁶⁸ and R⁶⁹ are independently of each other C₁-C₂₄alkyl, which can be interrupted by one or two oxygen atoms,

R⁷⁰, R⁷¹, R⁷², R⁷³, R⁷⁴, R⁷⁵, R⁷⁶, R⁹⁰, R⁹¹, R⁹², and R⁹³ are independently of each other H, CN, C₁-C₂₄alkyl, C₆-C₁₀aryl, C₁-C₂₄alkoxy, C₁-C₂₄alkylthio, -NR²⁵R²⁶, -CONR²⁵R²⁶, or -COOR²⁷,

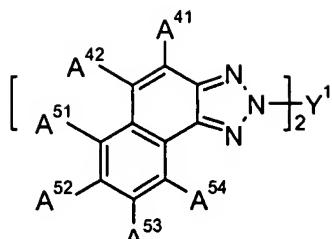
R²⁵ and R²⁶ are independently of each other H, C₆-C₁₈aryl, C₇-C₁₈aralkyl, or C₁-C₂₄alkyl, and

R²⁷ is C₁-C₂₄alkyl.

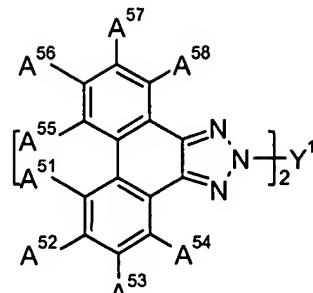
8. (previously presented): An electroluminescent device according to claim 2, wherein the 2H-benzotriazole compound is a compound of formula



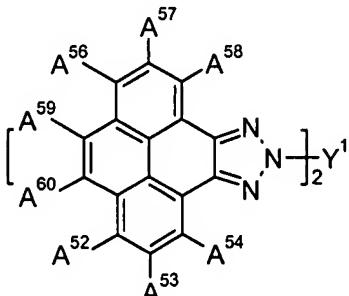
(IIIa),



(IIIb),



(IIIc),



or

(III d), wherein

A^{41} , A^{42} , A^{43} and A^{44} are independently of each other hydrogen, halogen, C_1 - C_{24} alkyl, C_1 - C_{24} perfluoroalkyl, C_6 - C_{18} aryl, $-NR^{25}R^{26}$, $-CO\ NR^{25}R^{26}$, or $-COOR^{27}$, or C_2 - C_{10} heteroaryl, or



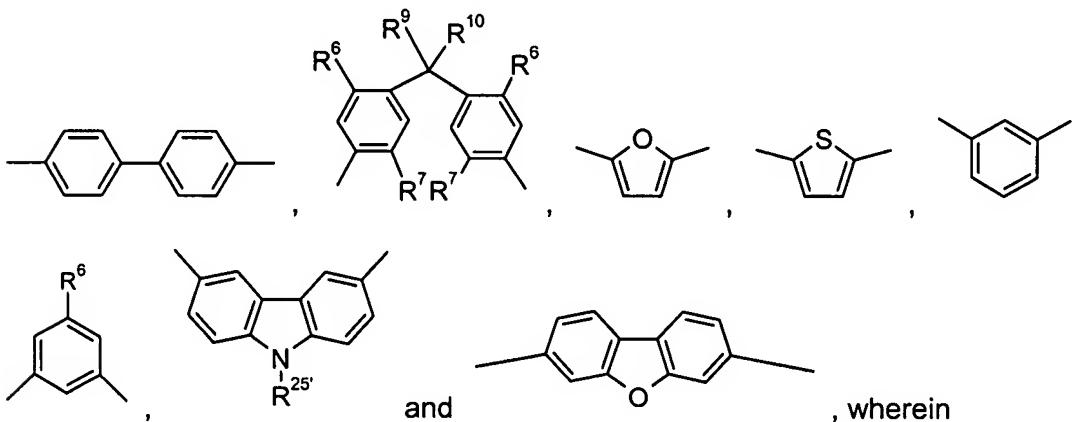
A^{42} and A^{43} are a group of formula

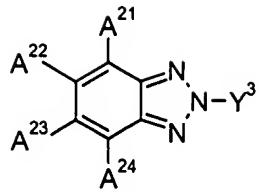
A^{51} , A^{52} , A^{53} , A^{54} , A^{55} , A^{56} , A^{57} , A^{58} , A^{59} and A^{60} are independently of each other H, CN, C_1 - C_{24} alkyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkylthio, C_6 - C_{18} aryl, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$, or C_2 - C_{10} heteroaryl, wherein

E^1 is O, S, or $-NR^{25'}-$,

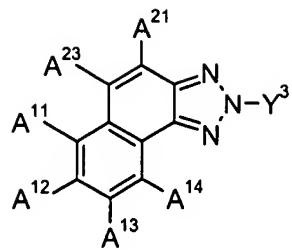
R^{25} and R^{26} are independently of each other H, C₆-C₁₈aryl, C₇-C₁₈aralkyl, or C₁-C₂₄alkyl, R^{27} is C₁-C₂₄alkyl, and

Y^1 is a group of formula

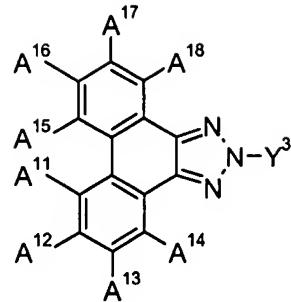




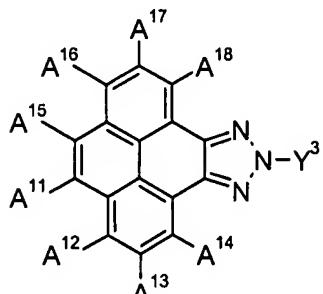
(IIa),



(IIb),

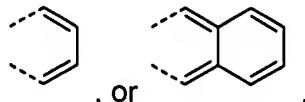


(IIc), or



(IId), wherein

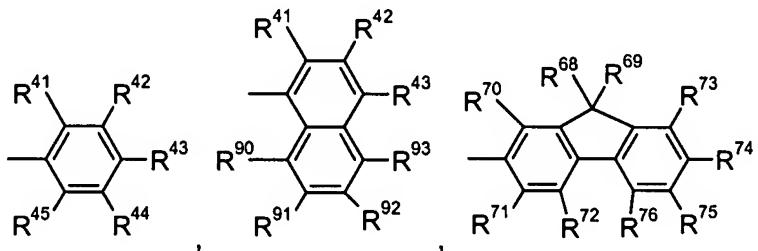
A^{21} , A^{22} , A^{23} and A^{24} are independently of each other hydrogen, halogen, C_1 - C_{24} alkyl, C_1 - C_{24} perfluoroalkyl, C_6 - C_{18} aryl, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$, or C_2 - C_{10} heteroaryl, or



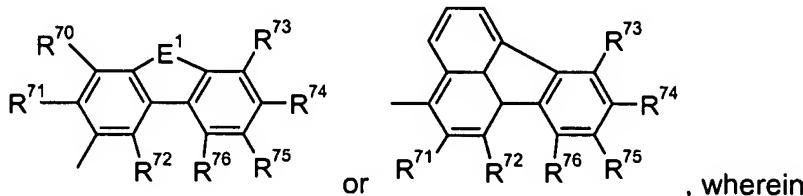
A^{22} and A^{23} or A^{11} and A^{23} are a group of formula

A^{11} , A^{12} , A^{13} , A^{14} , A^{15} , A^{16} , A^{17} , and A^{18} are independently of each other H, CN, C_1 - C_{24} alkyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkylthio, C_6 - C_{18} aryl, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$, or C_2 - C_{10} heteroaryl, wherein

R^{25} and R^{26} are independently of each other H, C_6 - C_{18} aryl, C_7 - C_{18} aralkyl, or C_1 - C_{24} alkyl, R^{27} is C_1 - C_{24} alkyl, and



Y^3 is a group of formula



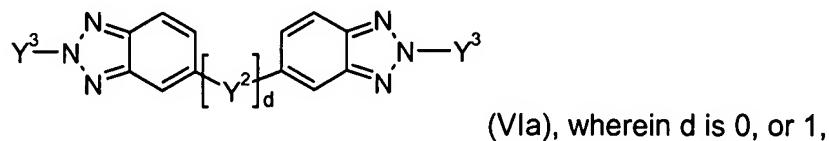
, wherein

R^{41} is hydrogen, C_1 - C_{24} alkoxy, or OC_7 - C_{18} aralkyl,

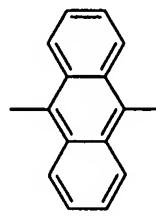
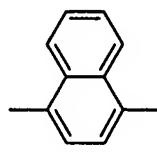
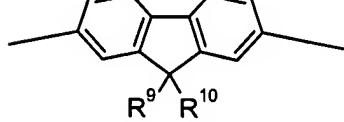
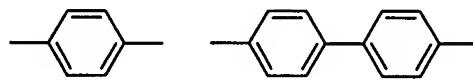
R^{42} is hydrogen, or C_1 - C_{24} alkyl,

R^8 is C_1 - C_{24} alkoxy, or $-O-C_7-C_{25}$ aralkyl, R^7 is H, or C_1 - C_{24} alkyl, R^9 and R^{10} are independently of each other C_1 - C_{24} alkyl, which can be interrupted by one or two oxygen atoms, and R^{25} is C_1 - C_{24} alkyl, or C_6 - C_{10} aryl.

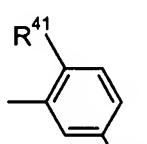
9. (previously presented): An electroluminescent device according to claim 2, wherein the 2H-benzotriazole compound is a compound of formula



Y^2 is a group of formula $-O-$, $-S-$, $-NR^{25}-$,



, or



R^{44} , wherein

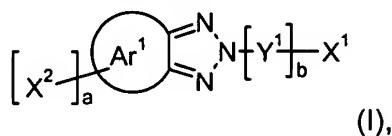
R^9 and R^{10} are independently of each other C_1 - C_{24} alkyl, which can be interrupted by one or two oxygen atoms,

R^{25} is H, C_6 - C_{18} aryl, C_7 - C_{18} aralkyl, or C_1 - C_{24} alkyl,

R^{41} is C_1 - C_{24} alkoxy, or C_7 - C_{15} phenylalkoxy, and

R^{44} is H, or C_1 - C_{24} alkyl.

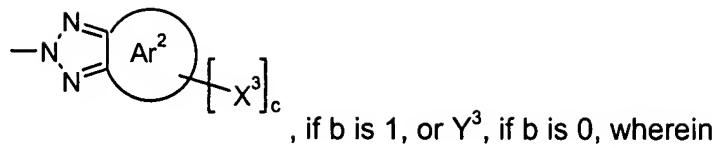
10. (currently amended): A 2H-benzotriazole compound of the formula



a is 0, or 1,

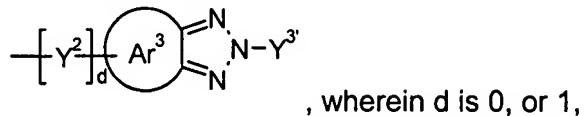
b is 0, or 1,

X^1 is a group of formula



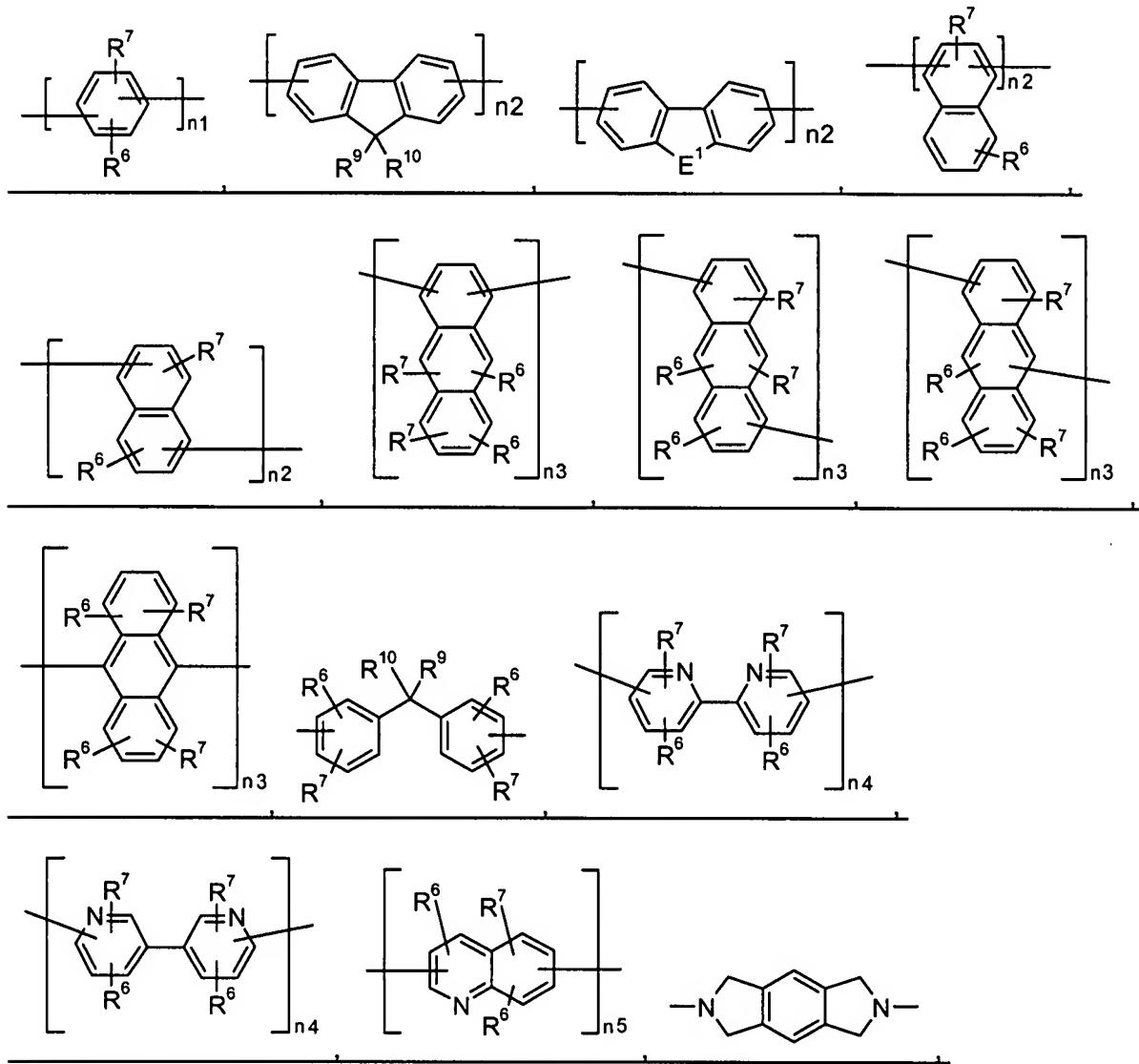
c is 0, or 1

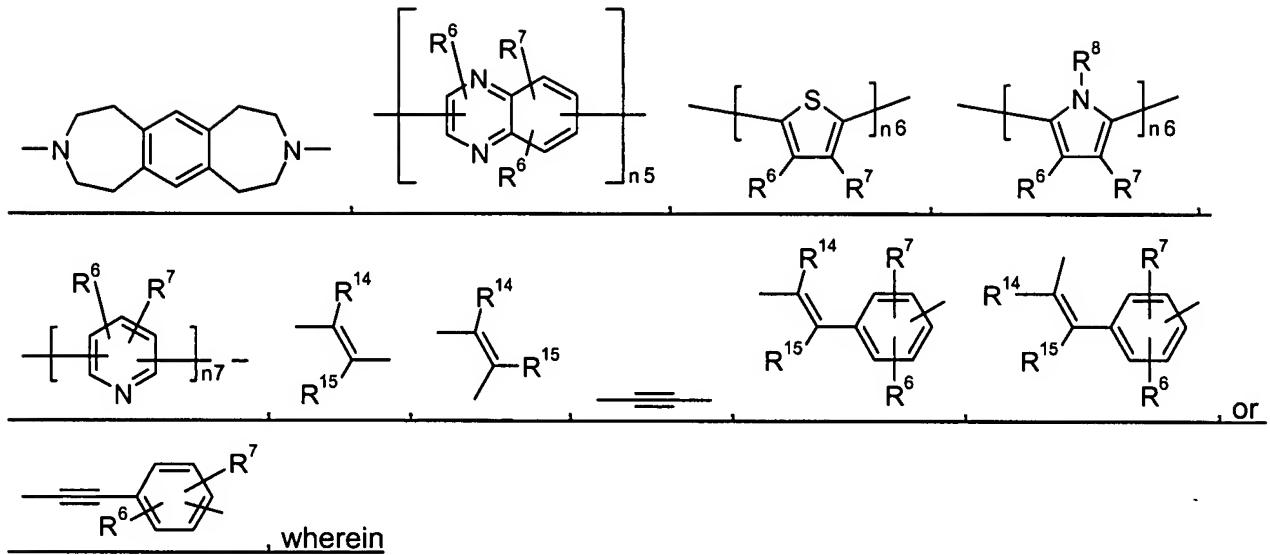
X^2 and X^3 are independently of each other a group of formula



Ar^1 , Ar^2 , and Ar^3 are independently of each other C_6 - C_{30} aryl or a C_2 - C_{26} heteroaryl, which can optionally be substituted,

Y^1 and Y^2 are independently of each other a ~~divalent linking group~~





n1, n2, n3, n4, n5, n6 and n7 are 1, 2, or 3.

E¹ is -S-, -O-, or -NR²⁵-, wherein R²⁵ is C₁-C₂₄alkyl, or C₆-C₁₀aryl,

R⁶ and R⁷ are independently of each other H, halogen, hydroxy, C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₁-C₂₄perfluoroalkyl, C₅-C₁₂cycloalkyl, C₅-C₁₂cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR²⁵-, C₅-C₁₂cycloalkoxy, C₅-C₁₂cycloalkoxy which is substituted by E, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, C₇-C₂₅aralkyl, C₇-C₂₅aralkyl, which is substituted by E, C₇-C₂₅aralkoxy, C₇-C₂₅aralkoxy which is substituted by E, or -CO-R²⁸,

R⁸ is C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, or C₇-C₂₅aralkyl,

R⁹ and R¹⁰ are independently of each other C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, C₂-C₂₀heteroaryl which is substituted by E, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₁-C₂₄alkoxy, C₁-C₂₄alkoxy which is substituted by E and/or interrupted by D, or C₇-C₂₅aralkyl, or R⁹ and R¹⁰ form a five- or six-membered ring,

R¹⁴ and R¹⁵ are independently of each other H, C₁-C₂₄alkyl, C₁-C₂₄alkyl which is substituted by E and/or interrupted by D, C₆-C₂₄aryl, C₆-C₂₄aryl which is substituted by E, C₂-C₂₀heteroaryl, or C₂-C₂₀heteroaryl which is substituted by E,

D is -CO-, -COO-, -S-, -SO-, -SO₂-, -O-, -NR²⁵-, -SiR³⁰R³¹-, -POR³²-, -CR²³=CR²⁴-, or -C≡C-, and

E is -OR²⁹, -SR²⁹, -NR²⁵R²⁶, -COR²⁸, -COOR²⁷, -CONR²⁵R²⁶, -CN, -OCOOR²⁷, or halogen,
wherein

R²³, R²⁴, R²⁵ and R²⁶ are independently of each other H, C₆-C₁₈aryl, C₆-C₁₈aryl which is substituted by C₁-C₂₄alkyl, C₁-C₂₄alkoxy, C₁-C₂₄alkyl, or C₁-C₂₄alkyl which is interrupted by -O-, or

R²⁵ and R²⁶ together form a five or six membered ring,

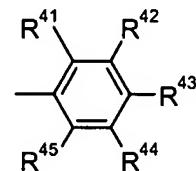
R²⁷ and R²⁸ are independently of each other H, C₆-C₁₈aryl, C₆-C₁₈aryl which is substituted by C₁-C₂₄alkyl, or C₁-C₂₄alkoxy, C₁-C₂₄alkyl, or C₁-C₂₄alkyl which is interrupted by -O-,

R²⁹ is H, C₆-C₁₈aryl, C₆-C₁₈aryl, which is substituted by C₁-C₂₄alkyl, C₁-C₂₄alkoxy, C₁-C₂₄alkyl, or C₁-C₂₄alkyl which is interrupted by -O-,

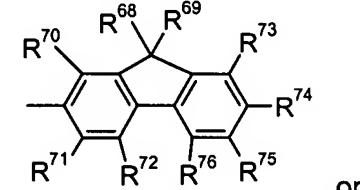
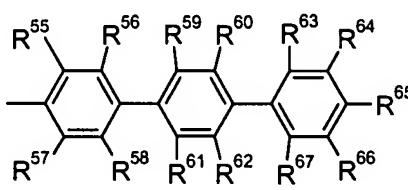
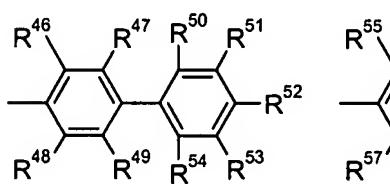
R³⁰ and R³¹ are independently of each other C₁-C₂₄alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₂₄alkyl, and

R³² is C₁-C₂₄alkyl, C₆-C₁₈aryl, or C₆-C₁₈aryl, which is substituted by C₁-C₂₄alkyl,

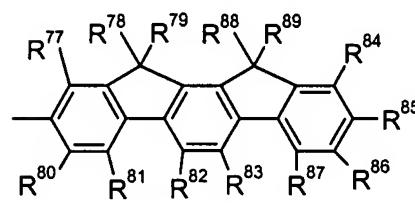
and



Y³ and Y^{3'} are independently of each other a group of formula



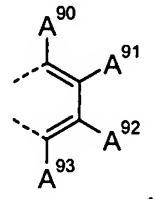
, or



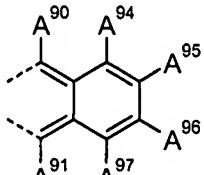
, wherein

R⁴¹, R⁴², R⁴³, R⁴⁴, R⁴⁵, R⁴⁶, R⁴⁷, R⁴⁸, R⁴⁹, R⁵⁰, R⁵¹, R⁵², R⁵³, R⁵⁴, R⁵⁵, R⁵⁶, R⁵⁷, R⁵⁸, R⁵⁹, R⁶⁰, R⁶¹, R⁶², R⁶³, R⁶⁴, R⁶⁵, R⁶⁶, R⁶⁷, R⁷⁰, R⁷¹, R⁷², R⁷³, R⁷⁴, R⁷⁵, R⁷⁶, R⁷⁷, R⁸⁰, R⁸¹, R⁸², R⁸³, R⁸⁴, R⁸⁵, R⁸⁶, and R⁸⁷ are independently of each other H, C₁-C₂₄alkyl, which is optionally substituted by E and/or interrupted by D, C₁-C₂₄alkenyl, which is optionally substituted by E, C₅-C₁₂cycloalkyl, which is optionally substituted by E, C₅-C₁₂cycloalkoxy, which is optionally substituted by E, C₆-

C_{18} aryl, which is optionally substituted by E, C_1 - C_{24} alkoxy, which is optionally substituted by E and/or interrupted by D, C_6 - C_{18} aryloxy, which is optionally substituted by E, C_7 - C_{18} arylalkoxy, which is optionally substituted by E, C_1 - C_{24} alkylthio, which is optionally substituted by E and/or interrupted by D, C_1 - C_{24} alkylselenium, which is optionally substituted by E and/or interrupted by D, C_1 - C_{24} alkyltellurium, which is optionally substituted by E and/or interrupted by D, C_2 - C_{20} heteroaryl which is substituted by E, or C_6 - C_{18} aralkyl, which is optionally substituted by E, or two groups R^{41} , R^{42} , R^{43} , R^{44} , R^{45} , R^{46} , R^{47} , R^{48} , R^{49} , R^{50} , R^{51} , R^{52} , R^{53} , R^{54} , R^{55} , R^{56} , R^{57} , R^{58} , R^{59} , R^{60} , R^{61} , R^{62} , R^{63} , R^{64} , R^{65} , R^{66} , R^{67} , R^{70} , R^{71} , R^{72} , R^{73} , R^{74} , R^{75} , R^{76} , R^{77} , R^{80} , R^{81} , R^{82} , R^{83} , R^{84} ,

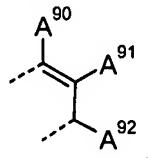


R^{85} , R^{86} , and R^{87} , which are neighbouring to each other, are a group



or  , wherein A^{90} , A^{91} , A^{92} , A^{93} , A^{94} , A^{95} , A^{96} and A^{97} are independently of each other H, halogen, hydroxy, C_1 - C_{24} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_1 - C_{24} perfluoroalkyl, C_5 - C_{12} cycloalkyl, C_5 - C_{12} cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or $-NR^{25}$ -, C_5 - C_{12} cycloalkoxy, C_5 - C_{12} cycloalkoxy which is substituted by E, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, C_7 - C_{25} aralkyl, C_7 - C_{25} aralkyl, which is substituted by E, C_7 - C_{25} aralkoxy, C_7 - C_{25} aralkoxy which is substituted by E, or $-CO-R^{28}$,

R^{68} , R^{69} , R^{78} , R^{79} , R^{88} and R^{89} are independently of each other C_1 - C_{18} alkyl, C_1 - C_{24} alkyl which is substituted by E and/or interrupted by D, C_6 - C_{24} aryl, C_6 - C_{24} aryl which is substituted by E, C_2 - C_{20} heteroaryl, C_2 - C_{20} heteroaryl which is substituted by E, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_1 - C_{24} alkoxy, C_1 - C_{24} alkoxy which is substituted by E and/or interrupted by D, or C_7 - C_{25} aralkyl, or R^{68} and R^{69} , R^{78} and R^{79} , and/or R^{88} and R^{89} form a five- or six-membered ring, or



R^{68} and R^{70} , R^{69} and R^{73} , R^{77} and R^{78} and/or R^{84} and R^{89} are a group

D is $-CO-$; $-COO-$; $-S-$; $-SO-$; $-SO_2-$; $-O-$; $-NR^{25}-$; $-SiR^{30}R^{31}-$; $-POR^{32}-$; $-CR^{23}=CR^{24}-$; or $-C\equiv C-$; and

E is $-\text{OR}^{29}$; $-\text{SR}^{29}$; $-\text{NR}^{25}\text{R}^{26}$; $-\text{COR}^{28}$; $-\text{COOR}^{27}$; $-\text{CONR}^{25}\text{R}^{26}$; $-\text{CN}$; $-\text{OCOOR}^{27}$; or halogen;
wherein

R^{23} , R^{24} , R^{25} and R^{26} are independently of each other H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$ which is substituted by $\text{C}_1\text{-C}_{24}\text{alkyl}$, or $\text{C}_1\text{-C}_{24}\text{alkoxy}$; $\text{C}_1\text{-C}_{24}\text{alkyl}$; or $\text{C}_1\text{-C}_{24}\text{alkyl}$ which is interrupted by $-\text{O}-$; or

R^{25} and R^{26} together form a five or six membered ring,

R^{27} and R^{28} are independently of each other H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$ which is substituted by $\text{C}_1\text{-C}_{24}\text{alkyl}$, or $\text{C}_1\text{-C}_{24}\text{alkoxy}$; $\text{C}_1\text{-C}_{24}\text{alkyl}$; or $\text{C}_1\text{-C}_{24}\text{alkyl}$ which is interrupted by $-\text{O}-$,

R^{29} is H; $\text{C}_6\text{-C}_{18}\text{aryl}$; $\text{C}_6\text{-C}_{18}\text{aryl}$, which is substituted by $\text{C}_1\text{-C}_{24}\text{alkyl}$, or $\text{C}_1\text{-C}_{24}\text{alkoxy}$; $\text{C}_1\text{-C}_{24}\text{alkyl}$; or $\text{C}_1\text{-C}_{24}\text{alkyl}$ which is interrupted by $-\text{O}-$,

R^{30} and R^{31} are independently of each other $\text{C}_1\text{-C}_{24}\text{alkyl}$, $\text{C}_6\text{-C}_{18}\text{aryl}$, or $\text{C}_6\text{-C}_{18}\text{aryl}$, which is substituted by $\text{C}_1\text{-C}_{24}\text{alkyl}$, and

R^{32} is $\text{C}_1\text{-C}_{24}\text{alkyl}$, $\text{C}_6\text{-C}_{18}\text{aryl}$, or $\text{C}_6\text{-C}_{18}\text{aryl}$, which is substituted by $\text{C}_1\text{-C}_{24}\text{alkyl}$.